CLAIMS

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1. An inkjet printhead comprising:

a wafer providing a supporting substrate, the wafer having a drop ejection side and a liquid supply side;

a plurality of nozzles, each nozzle having a liquid passage leading to it from the liquid supply side of the wafer for providing ejectable liquid to the nozzle; drop ejection actuators and associated drive circuitry corresponding to each nozzle respectively;

the nozzles, ejection actuators, associated drive circuitry and liquid passage being formed on and through the wafer using lithographically masked etching techniques; wherein,

the liquid passage is partially etched from the drop ejection side such that the distance between the drive circuitry and the passage is less than 20 microns.

- 2. An inkjet printhead according to claim 1 wherein the distance between the drive circuitry and the liquid passage is less than 10 microns.
- 3. An inkjet printhead according to claim 1 wherein the distance between the drive circuitry and the liquid passage is less than 5 microns.
- An inkjet printhead according to claim 1 wherein the width of the liquid passage is greater than 10 microns and less than 28 microns.
 - 5. An inkjet printhead according to claim 1 wherein the drop ejection actuators are thermal bend actuators.
 - 6. An inkjet printhead according to claim 1 wherein the drop ejection actuators are gas bubble generating heater elements.
 - 7. An inkjet printhead according to claim 7 further including a plurality of nozzle chambers, each nozzle chamber corresponding to a respective nozzle; wherein, at least one the of the gas bubble generating heater elements are disposed in each of the nozzle chambers respectively; such that,
- a bubble forming liquid can be supplied to the nozzle chamber for thermal contact with at least one of the bubble generating heater elements so that a bubble of the

- bubble forming liquid generated by one of the heater elements causes a droplet of the ejectable liquid to be ejected from the nozzle.
- 8. An inkjet printhead according to claim 8 wherein the bubble forming liquid is the same as the ejected liquid.
- 9. An inkjet printhead according to claim 1 wherein the printhead is a pagewidth printhead.
- 11. A method of ejecting drops of an ejectable liquid from an inkjet printhead, the printhead comprising a wafer providing a supporting substrate, the wafer having a drop ejection side and a liquid supply side, a plurality of nozzles, each nozzle 10 having a liquid passage leading to it from the liquid supply side of the wafer for providing ejectable liquid to the nozzle, drop ejection actuators and associated drive circuitry corresponding to each nozzle respectively, the nozzles, ejection actuators, associated drive circuitry and liquid passage being formed on and through the wafer using lithographically masked etching techniques; wherein, the liquid passage is partially etched from the drop ejection side such that the distance between the drive circuitry and the passage is less than 20 microns; the method of ejecting drops comprising the steps of: providing the ejectable liquid to each of the nozzles using the associated liquid passage; and 20 actuating the drop ejection actuator to eject drops of the ejectable liquid from the nozzle.
 - 12. A method according to claim 11 wherein the distance between the drive circuitry and the liquid passage is less than 10 microns.
 - 13. A method according to claim 11 wherein the distance between the drive circuitry and the liquid passage is less than 5 microns.
 - 14. A method according to claim 11 wherein the width of the liquid passage is greater than 10 microns and less than 28 microns.

- 15. A method according to claim 11 wherein the drop ejection actuators are thermal bend actuators.
- 16. A method according to claim 11 wherein the droplet ejection actuators are gas bubble generating heater elements.
- 17. A method according to claim 16 further including a plurality of nozzle chambers, each nozzle chamber corresponding to a respective nozzle; wherein, at least one the of the gas bubble generating heater elements are disposed in each of the nozzle chambers respectively; such that, a bubble forming liquid can be supplied to the nozzle chamber for thermal contact with at least one of the bubble generating heater elements so that a bubble of the bubble forming liquid generated by one of the heater elements causes a drop of the ejectable liquid to be ejected from the nozzle.
 - 18. A method according to claim 17 wherein the bubble forming liquid is the same as the ejected liquid.
 - 19. A method according to claim 11 wherein the printhead is a pagewidth printhead.
 - 20. A printer system incorporating an inkjet printhead comprising:
 - a wafer providing a supporting substrate, the wafer having a drop ejection side and a liquid supply side;
 - a plurality of nozzles, each nozzle having a liquid passage leading to it from the liquid supply side of the wafer for providing ejectable liquid to the nozzle; drop ejection actuators and associated drive circuitry corresponding to each nozzle respectively;

the nozzles, ejection actuators, associated drive circuitry and liquid passage being formed on and through the wafer using lithographically masked etching techniques; wherein,

the liquid passage is partially etched from the drop ejection side such that the distance between the drive circuitry and the passage is less than 20 microns.

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- 32. A printer system according to claim 31 wherein the distance between the drive circuitry and the liquid passage is less than 10 microns.
- 33. A printer system according to claim 31 wherein the distance between the drive circuitry and the liquid passage is less than 5 microns.
- 34. A printer system according to claim 31 wherein the width of the liquid passage is greater than 10 microns and less than 28 microns.
- 35. A printer system according to claim 31 wherein the droplet ejection actuators are thermal bend actuators.
- 36. A printer system according to claim 31 wherein the droplet ejection actuators are
 gas bubble generating heater elements.
 - 37. A printer system according to claim 36 further including a plurality of nozzle chambers, each nozzle chamber corresponding to a respective nozzle; wherein, at least one the of the gas bubble generating heater elements are disposed in each of the nozzle chambers respectively; such that, a bubble forming liquid can be supplied to the nozzle chamber for thermal contact with at least one of the bubble generating heater elements so that a bubble of the bubble forming liquid generated by one of the heater elements causes a drop of the ejectable liquid to be ejected from the nozzle.
- 38. A printer system according to claim 37 wherein the bubble forming liquid is the same as the ejected liquid.
 - 39. A printer system according to claim 31 wherein the printhead is a pagewidth printhead.